

# PATENT ABSTRACTS OF JAPAN

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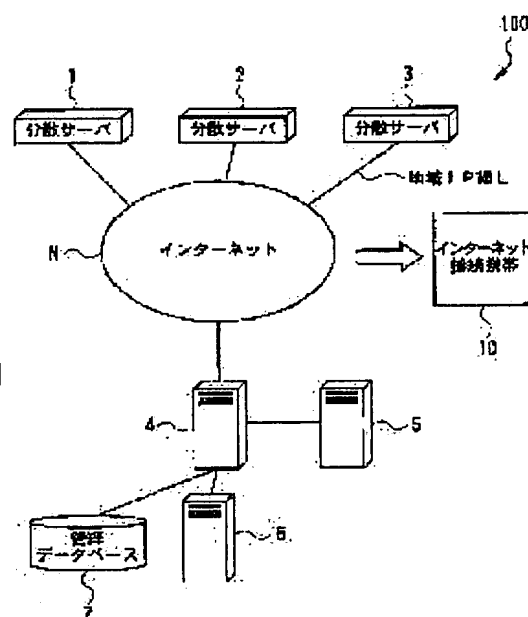
(72)Inventor : NAGANO TOSHIHARU

## (54) MANAGING SERVER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a managing server for preventing external invasion by reducing maintenance operation costs for the group of servers distributed for information providing services and minimizing the number of ports to be opened for maintenance operation.

**SOLUTION:** A managing server has an internal environment monitoring function for successively comparing each of internal environment information of respective distributed servers 1-3 stored inside an issuing server 6 and internal environment information stored inside each of distributed servers 1-3 corresponding to prescribed requests from the distributed servers 1-3 or automatically by autonomous operation and an internal environment replacing function for replacing the internal environment information in the distributed servers 1-3 by the internal environment information stored in the issuing server 6 when there is a difference between the information as functions corresponding to the maintenance operation.



## LEGAL STATUS

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# NETWORK MANAGEMENT SYSTEM

**Patent number:** JP11122283  
**Publication date:** 1999-04-30  
**Inventor:** HIRAI JUN  
**Applicant:** TOKYO SHIBAURA ELECTRIC CO  
**Classification:**  
 - International: H04L12/46; H04L12/28; G06F13/00; H04L12/24; H04L12/26; H04L12/56  
 - european:  
**Application number:** JP19970282044 19971015  
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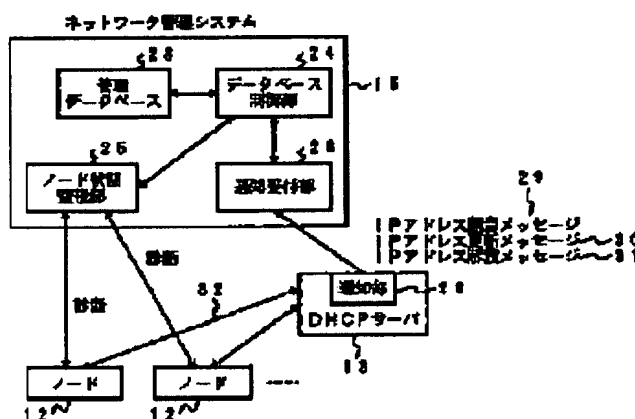
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 US6324577 (B1)

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## Abstract of JP11122283

**PROBLEM TO BE SOLVED:** To grasp the assignment state of IP addresses to each node in a network without a time lag. **SOLUTION:** The network management system that manages various states of each node 12 whose IP address is dynamically assigned by an IP address assignment section 13 integrated in a network, is provided with a management database 23 that stores at least a name of a corresponding node, an IP address and an operating state for each node, a management information output means that outputs storage contents of the management database as management information to each node, an assignment information collection means 26 that collects revision of the assignment information in the IP address assignment section when the IP address assignment section revises assignment information of the IP address to each node, and a database management means 24 that updates storage contents of the management database into the newest information based on the assignment information of the IP address of each node collected by the assignment information collection means.



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